U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Cornell-Dubilier Electronics - Residential Properties (2014) - Removal Polrep
Initial and Final Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II

Subject: **POLREP #1**
Initial and Final
Cornell-Dubilier Electronics - Residential Properties (2014)
02GZ
South Plainfield, NJ
Latitude: 40.5765916 Longitude: -74.4131631

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From: Mark Gallo, On-Scene Coordinator
Date: 11/4/2014
Reporting Period: 8/4/2014 - 9/24/204

1. Introduction

1.1 Background

Site Number:	02GZ	**Contract Number:**	EPS21003
D.O. Number:	84	**Action Memo Date:**	9/10/2013
Response Authority:	CERCLA	**Response Type:**	
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	NPL	**Operable Unit:**	OU1
Mobilization Date:	8/4/2013	**Start Date:**	7/14/2014
Demob Date:	8/11/2014	**Completion Date:**	9/24/2014
CERCLIS ID:	NJD981557879	**RCRIS ID:**	NJR000240026
ERNS No.:		**State Notification:**	
FPN#:		**Reimbursable Account #:**	

1.1.1 Incident Category

Remedial Action to decontaminate interior living areas of two residences on Jackson Avenue and one residence on Delmore Avenue. Decontamination involved the removal of PCB contaminated dust within the buildings, HVAC systems, radiator heat systems, appliances, furniture, carpets and all horizontal surfaces of interior structures.

1.1.2 Site Description

Residential homes impacted with PCB contaminated dust.

1.1.2.1 Location

The site coordinates are 40.5775 Latitude and -74.4136 Longitude. The former Cornell-Dubilier Electronics (CDE) facility is located at 333 Hamilton Boulevard in South Plainfield, Middlesex County, New Jersey. It occupies approximately 26 acres in an area of mixed industrial, commercial and residential uses, and is bordered by commercial businesses and residences to the south, west, and northwest. Wetlands and an unnamed tributary to the Bound Brook border the former CDE facility to the southeast and east. Conrail railroad tracks pass alongside the eastern edge of the Site and crisscross the unnamed tributary just north of the former CDE facility. Other industries and commercial businesses are present to the northeast and east of the former CDE facility on the opposite side of the Conrail tracks. An estimated 540 persons reside within 0.25 miles of the former CDE facility, with the nearest residential homes being located on Spicer Avenue and on the opposite side of Hamilton Boulevard, less than 200 feet from the former CDE facility. The total population estimated to live within one mile of the Site is 8,700 persons. A site map is included as additional information, please refer to "documents" on www.epaosc.org/cornell-dubilier.

1.1.2.2 Description of Threat

Interior dust samples collected from the interiors of the three residences that were cleaned documented analytical results over the ROD-specified standard for Total PCBs of 1.0 ppm. Values ranging from 1.31 ppm (Property 129) to 106 ppm (Property 307) were recorded.

PCBs were initially released and disposed, on-site, as a result of manufacturing activities at the former CDE facility. Surface and subsurface soil sampling in areas around the former CDE facility have documented migration of PCBs to the adjacent areas. Analytical results from soil samples collected from properties along Delmore Ave and Jackson Ave have reported the presence of PCB compounds in many of the samples collected. Four individual Aroclors (-1242, -1248, -1254, and -1260) were detected at the former CDE facility.

PCBs are a group of 209 different chemicals which share a common structure but vary in the number of attached chlorine atoms. The International Agency for Research on Cancer and EPA classify PCBs as a probable human carcinogen. The National Toxicology Program has concluded that PCBs are reasonably likely to cause cancer in humans. The National Institute for Occupational Safety and Health has determined that PCBs are a potential occupational carcinogen. Studies of PCBs in humans have found increased rates of melanomas, liver cancer, gall bladder cancer, biliary tract cancer, gastrointestinal tract cancer, and brain cancer, and have found that PCBs may be linked to breast cancer. PCBs are known to cause a variety of types of cancer in rats, mice, and other study animals.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Dust samples collected from the interiors of the three residences that were cleaned documented PCB levels over the ROD-specified standard for Total PCBs of 1.0 ppm. Values ranging from 1.31 ppm (Property 129) to 106 ppm (Property 307) were recorded. Samples were primary collected in the living areas of the homes with exception of one home (Property 306) which presented free from dust accumulation requiring the sampling team to collected dust from HVAC systems in order to produce enough volume for the required analysis. Results from Property 306 were documented at 21.4 ppm and 11.1 ppm.

2. Current Activities

2.1 Operations Section

2.1.1 Current Situation

The final data characterization report for Phase 2 OU-1 Interior Dust Sampling submitted in April 2012 reported that interior dust samples collected from the interiors of two residences (Properties 306 and 307) showed results over the ROD-specified standard for Total PCBs of 1.0 ppm. On April 25, 2013, interior samples were also collected from Property 129. Results from Property 129 sampling also reported results over the ROD-specified standard for Total PCBs of 1.0 ppm.

At the request of the U.S. Environmental Protection Agency's (EPA) Remedial Program, the EPA Removal Action Branch (RAB) mobilized its Emergency and Rapid Response Services (ERRS) Contractor to site on August 4, 2014 to initiate the interior cleaning of Properties 129, 306, and 307.

The cleaning activities focused on HVAC systems, radiator heating systems, appliances, furniture, floors/floor coverings, and all horizontal and vertical surfaces. All cleaning operations were completed by August 11, 2014 with final off-site shipment of waste completed on September 24, 2014

2.1.2 Response Actions to Date

On August 4, 2014, ERRS initiated the cleaning of the interior of Property 307. This was a vacant home with access provided by a local Realtor who was representing the Financial Institution holding title to the property. ERRS completed the cleaning of the basement, first floor, and second floor of the home by August 5, 2014. All liquid and solid wastes associated with the cleaning operations were containerized for future characterization sampling and disposal.

On August 6, 2014, ERRS initiated the cleaning of the interior of Property 129. This home was occupied by the property owner who declined relocation services during the cleaning operations. ERRS completed the cleaning of the basement, first floor, and second floor of this property on August 8, 2014. All liquid and solid wastes associated with the cleaning operations were containerized for future characterization sampling and disposal.

On August 11, 2014, ERRS initiated and completed the cleaning of the HVAC system of Property 306. This was accomplished through a sub-contract with a professional/commercial HVAC cleaning company. ERRS augmented the cleaning operation by conducting the HEPA vacuum and wet wiping of the mechanical / furnace room as well as the areas around the air diffusers and intakes. All liquid and solid wastes associated with the cleaning operations were containerized for future characterization sampling and disposal.

On August 11, 2014, ERRS conducted waste characterization sampling from drums of waste generated during the cleaning activities. Where initial sampling at a property indicated results exceeded 50 ppm for PCB, the generated waste was treated as a TSCA regulated waste.

On September 24, 2014, ERRS completed the off-site shipping of three (3) drums of waste generated during the cleaning activities.

The following is a summary of the cleaning activities performed at the three properties identified in this report;

Cleaning Procedures

Properties 129 (Delmore Ave) and Property 307 (Jackson Ave)

1. Occupant of Property 129 was offered temporary relocation services but declined. Property 307 was vacant at the time of the action.
2. Remove dust from interiors using vacuum equipped with HEPA filters, carpet steam cleaners, mops and damp rags to clean homes by:
    - HEPA vacuuming of horizontal surfaces, carpets, furniture, drapes, blinds and shades;

- upon approval of property owner or legal representative, some window blinds were disposed and replaced with new blinds;
- mopping of tile, linoleum and other uncovered floors;
- steam cleaning of carpets and area rugs;
- wet wiping of horizontal surfaces (book shelves, table tops, appliances);
- moving freestanding appliances to HEPA vacuum/wet wipe dust from areas covered by appliance(s);
- vacuuming of dust from refrigerator cooling coils;
- cleaning dryer drums and replacement of discharge ducts;
- cleaning of abandoned heating and exhaust ducts;
- cleaning of radiator heating equipment;
- HEPA vacuum and washing of window and door screens and sills; and vacuuming of decorative molding surrounding windows and doors.

Property 306 (Jackson Ave)

1. At the direction / decision of the EPA Remedial Program, only HVAC systems and ducts were cleaned at this property. Sample collection and analysis indicated contamination was identified within the HVAC system.
2. HVAC ducts were cleaned by isolating each duct system and implementing a high pressure push-pull system to recover dust from the isolated duct system. High pressure air and mechanical whips were used to remove/push dust through the duct system to a collection area at the main HVAC duct where it was recovered using a high pressure HEPA vacuum unit.
3. The mechanical room, diffusers and intake areas were HEPA vacuumed and wet wiped to remove dust and/or particulates.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)
NA

2.1.4 Waste Dispostion

Waste Stream	***Quantity***	***Manifest #***	***Disposal***
PCB Liquids (TSCA Regulated)	55 gallons	010408120 JJK*	Chemical Waste Management,Model City, NY (NYD049836679)
PCB Solids (TSCA Regulated)	55 gallons	010408120 JJK*	Chemical Waste Management,Model City, NY (NYD049836679)
PCB Liquids (non-TSCA Regulated)	55 gallons	010408120 JJK*	WM-PA, Grows NorthMorrisville, PA (Permit 100148)
*Waste shipped off-site on 9/24/2014 were manifested to Cycle Chem Inc, a TSD Facility (NJD002200046) in Elizabeth, NJ. From there the waste will be processed and/or bulked for final shipment to the either Model City, NY or Grows North landfill in Morrisville, PA.			

2.2 Planning Section

There are no additional response activities planned for residential areas at this time

2.3 Logistics Section

Not applicable

2.4 Finance Section

A Remedial Action Memorandum authorizing a total project ceiling of $75,000 was approved. Below is a breakdown of the costs budgeted and incurred to date on this project.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$50,000.00	$23,100.00	$26,900.00	53.80%
RST 3	$10,000.00	$8,200.00	$1,800.00	18.00%
Intramural Costs				
Total Site Costs	$60,000.00	$31,300.00	$28,700.00	47.83%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

Not applicable

3. Participating Entities

Not applicable

4. Personnel On Site

EPA – 1 On-Scene Coordinator
ERRS – 1 Response Manager
ERRS – 3 Cleanup Technicians
RST – 1 Removal Support Team Contractor

5. Definition of Terms

Not applicable

6. Additional sources of information

This Pollution Report is Initial and Final.

7. Situational Reference Materials

Not applicable